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Nixon & Vanderhye P C (16/09)
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RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

am the ori	ginal, first and sole inver	ntor (it only one name is l ad for which a patent is so	isted below) or an origina	and citizenship are as state I, first and joint inventor (if p itled: CANCELLER	d below next-to olural names ar	my reme, and I believed e lister welow) of the
e ei ei se i se i se i se i se i se i s	ication of which (check a attached hereto is filed on is filed as PCT Internation	June 1, 2000 nal application No.	as U.S. Applicat		(Att	y Dkt. No. 1410-679)
I hereby s amendme 37 C.F.R. below and priority is Priority Fo	state that I have reviewed ent referred to above. I a 1.58. I hereby claim for	icknowledge the duty to d	ntents of the above identiful disclose information which er 35 U.S.C. 119/365 of a portor patent or inventor's	ied specification, including to a second sec	r patent or invel te before that o	ntor's certificate listed
	claim the benefit under 3 on Number	5 U.S.C. §119(e) of any t	United States provisional Date/Month/Year I	application(s) listed below. Filed		
subject m U.S.C. 11	atter of each of the clain 2. I acknowledge the du	ac of thic application is no	ot disclosed in such prior formation as defined in 37	T international applications applications in the manner procedures of the contract of the cont	שיוו עט טשטועטזכ	טיי וויין וויין און און און און און און און
	JPCT Application(s): on Sarial No.		Day/Month/Year i	Filed	s	Status: patented pending, abandoned
be true; a imprison applicatic 8th Floor, attorneys in the Pa Vanderhy Bryan H. 33149; H Molan, 2t Lester, 3.	und further that these stanent, or both, under Secon or any patent issued to Ariotect for the same at thereof (of the same adtent and Trademark Office, 27076; James T. Hos Davidson, 30251; Stanle, Warren Burnam, Jr. 299834; B. J. Sadoff, 3666; 2331; Frank P. Presta, 1	tements were made with tion 1001 of Title 18 of the hereon. And on behalf of 714, telephone number dress) individually and cose connected therewith a timer, 30184; Robert W. Fey C. Spooner, 27393; Les 366; Thomas E. Byme, 33; James D. Berquist, 34, 1828, 1829, S. Presta	the knowledge that willfule United States Code and if the owner(s) hereof, I have for the owner's owners owner's owners of with the resulting paterials, 31352; Richard G. I witchard, 2900 (2205; Mary J. Wilson, 32776; Updeep S. Gill, 373, 35329; Joseph A. Rhoa, or solely on instructions directly on behalf of the owners.		ke so made are ements may jeo NDERHYE P.C. to be directed application an 27; Larry S. Ni; baum, 32348; N Jeffry H. Nelson 89; Alan M. Ka Donald L. Jack Donald L. Jack on & Vanderhy, the person, assign person, assign and so made the the person, assign and a so made the the person, assign the person the person	pointstable by little to the validity of the 1100 North Glebe Rd., I), and the following d to transact all business con, 25840; Robert A. lichael J. Keenan, 32106; n. 30481; John R. Lastova gen, 36178; Robert A. son, 41090; Michelle N. et to delete any attorney mee, attorney, firm, or
1.	Inventor's Signature: Inventor:	Fredrik	k druly	LINDQVIST (last)	Date: <u>20</u>	5weden (citizenship)
	Residence: (city) Post Office Address: (Zlp Code)	(first) Skärholmen Skogsslingan 34, Skä SE-127 41	MI rholmen, Sweden	(state/country) Sweder	n	(Onizeriship)
2.	Inventor's Signature: Inventor:	Antoni (first)		FERTNER (last)	Date:	Sweden (citizenship)
	Residence: (city) Post Office Address: (Zip Code)	Solna Kruthusbacken 76 1tr SE-169 52		_ (state/country) _ Śweder	n	
	•					

FOR ADDITIONAL INVENTORS, check box 🗵 and attach sheet with same information and signature and date for each.

FROM NIXON VANDERHYE PC Serial No.

703+816+4100MON) 6. 19'00 10: ST. 10:33/NO. 4860565016 P 3 (Domestic Non-Assigned/Foreign) Page 2

•	Inventor's Signature:		Date:			
3.	Inventor:	Pál (first)	МІ	FREN (las	st)	Sweden (citizenship)
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	(Zip Code)	SE-170 78				

Inventors Signature:

Post Office Address:

Residence: (city)

Inventor:

2.

(Zlp Code)

(Zip Code)

SE-127 41

Solna

SE-169 52

Antoni

(first)

Kruthusbacken 76 1tr, Solna, Sweden

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RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Nixop & Valderhy C. (10/99) (Domestic Non-Assigned/Foreign Page 1 AU6 2 4 2000

	ow named inventor, I hereb riginal, first and sole invent natter which is claimed and	or (it only one liame is it I for which a natent is so	Sted below) of all oliginary	led:	alow and I believe I I names and inelow) of the
the speci	ification of which (check as	plicable box(s)):			
□ is	attached hereto		as U.S. Application	on Serial No	(Atty Dkt. No. 1410-679)
⊠ wa	as filed on	June 1, 2000	as U.S. Application	an an	
□ w	as filed as PCT Internation	al application No.			
	pplicable to U.S. or PCT ap				
amendrr 37 C.F.F below ar priority is Priority I	ent referred to above. I ac	knowledge the duty to c lign priority benefits und live any foreign application	er 35 U.S.C. 119/365 of an	ertificate having a filing date b	claims, as amended by any of this application in accordance with tent or inventor's certificate listed efore that of the application on which Day/Month/Year Filed
l hereby Applica	claim the benefit under 35 tion Number	U.S.C. §119(e) of any (United States provisional a Date/Month/Year F	application(s) listed below.	
U.S.C. applicat	112, I acknowledge the dutions and the national or Postions and the national or Postion (s): ation Sarial No.	v to disclose material in	OUDIATION 92 DELINED IN OV	On the rise with the second of the	vided by the first paragraph of 35 powers the filing date of the prior Status: patented pending, abandoned
be true; impriso applica 8 th Floc attorne; in the F Vander Bryan I 33149; Molan, Lester,	; and further that these statenment, or both, under Section or any patent issued the pr. Arlington, VA 22201-41 yes thereof (of the same addratent and Trademark Offichye, 27076; James T. Hosh. Davidson, 30251; Stanle H. Warren Bumam, Jr. 2929834; B. J. Sadoff, 36663	ements were made with ion 1001 of Title 18 of the ion 1001. And on behalf of 714, telephone number dress) individually and cle connected therewith a mer, 30184; Robert W. I by C. Spooner, 27393; L. 366; Thomas E. Byme, 36; James D. Berquist, 34, 9828; Joseph S. Presta, of firm and to act and religion of the section of t	in the Niowedge that william the United States Code and the owner(s) hereof, I here (703) 816-4000 (to whore ollectively owner's/owners and with the resulting pater Faris, 31352; Richard G. Eeonard C. Mitchard, 2900; 32205; Mary J. Wilson, 32, 1776; Updeep S. Gill, 3733, 35329; Joseph A. Rhoa, sy solely on instructions dir	if that such willful false statemereby appoint NIXON & VANDI in all communications are to attorneys to prosecute this are. Arthur R. Crawford, 25327; lesha, 22770; Mark E. Nusbaus; Duane M. Byers, 33363; Jef 955; J. Scott Davidson, 33489; Michael J. Shea. 34725; Do 37515. I also authorize Nixon ectly communicated from the perics).	Information and belief are believed to so made are punishable by fine or ents may leopardize the validity of the ERHYE P.C., 1100 North Glebe Rd., be directed), and the following optication and to transact all business. Larry S. Nixon, 25640; Robert A. im, 32348; Michael J. Keenan, 32106 firy H. Nelson, 30481; John R. Lastovi; Alan M. Kagen, 36178; Robert A. onald L. Jackson, 41090; Michelle N. & Vanderhye to delete any attorney person, assignee, attorney, firm, or oate: Sweden (citizenship)

- /h

МІ

FERTNER

(last)

Sweden

(state/country)

FOR ADDITIONAL INVENTORS, check box 🔯 and attach sheet with same information and signature and date for each.

2000

Sweden

(citizenship)

FROM NEXON VANDERHYE PC Serial No.

703+816+4100MON) 6. 19'00 10:3

T. 10:33/N0. 4860565016 P 3 (Domestic Non-Assigned/Foreign) Page 2

_	Inventor's Signature: Inventor:			Date:		
3.		Pál (first)	MI	FRENGER (last)	Sweden (citizenship)	
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Nixor a Vanderbye P.C. (10/99) (Domestic Non-Assigned Foreign) Page 1

RULE 63 (37 C.F.R. 1.63) INVENTORS DECLARATION FOR PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUG 2 & Company As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural haves, are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: A FREQUENCY DOMAIN ECHO CANCELLER the specification of which (check applicable box(s)): is attached hereto (Atty/Dkt. No. 1410-679) as U.S. Application Serial No. June 1, 2000 X was filed on was filed as PCT International application No. an and (if applicable to U.S. or PCT application) was amended on I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 C.F.R. 1.56. I hereby claim foreign priority benefits under 35 U.S.C. 119/365 of any foreign application) for eatent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed or, if no priority is claimed, before the filling date of this application:

Priority Foreign Application(s): Day/Month/Year Filed Country **Application Number**

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) In Date/Month/Year Filed **Application Number**

I hereby claim the benefit under 35 U.S.C. 120/365 of all prior United States and PCT international applications listed above or below and, insofar as the subject matter of each of the claims of this application is not disclosed in such prior applications in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose material information as defined in 37 C.F.R. 1.56 which occurred between the filing date of the prior applications and the national or PCT international filing date of this application:

Prior U.S./PCT Application(s): Application Serial No.

Day/Month/Year Filed

Status: patented pending, abandoned

Date:

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. And on behalf of the owner(s) hereof, I hereby appoint NIXON & VANDERHYE P.C., 1100 North Glebe Rd., 8th Floor, Arlington, VA 22201-4714, telephone number (703) 816-4000 (to whom all communications are to be directed), and the following attorneys thereof (of the same address) individually and collectively owner's/owners' attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith and with the resulting patent: Anhur R. Crawford, 25327; Larry S. Nixon, 25640; Robert A Vanderhye, 27076; James T. Hosmer, 30184; Robert W. Faris, 31352; Richard G. Besha, 22770; Mark E. Nusbaum, 32348; Michael J. Keenan, 32106; Bryan H. Davidson, 30251; Stanley C. Spooner, 27393; Leonard C. Mitchard, 29009; Duane M. Byers, 33363; Jeffry H. Nelson, 30481; John R. Lastova, 33149; H. Warren Burnam, Jr. 29366; Thomas E. Byrne, 32205; Mary J. Wilson, 32955; J. Scott Davidson, 33489; Alan M. Kagen, 36178; Robert A. Molan, 29834; B. J. Sadoff, 36863; James D. Berquist, 34776; Updeep S. Gill, 37334; Michael J. Shea. 34725; Donald L. Jackson, 41090; Michael N. Lester, 32331; Frank P. Presta, 19828; Joseph S. Presta, 35329; Joseph A. Rhoa, 37515. I also authorize Nixon & Vanderhye to delete any attorney names/numbers no longer with the firm and to act and rely solely on instructions directly communicated from the person, assignee, attorney, firm, or other organization sending instructions to Nixon & Vanderhye on behalf of the owner(s).

1.	inventors Signature.					
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	(Zip Code)	SE-127 41				
2.	Inventor's Signature:				Date:	
L .	Inventor:	Antoni (first)	МІ	FERTNER (last)	•	Sweden (citizenship)
	Residence: (city)	Solna		(state/country)Sweden		
	Post Office Address:	Office Address: Kruthusbacken 76 1tr, Solna, Sweden				
	(Zip Code)	SE-169 52				

FOR ADDITIONAL INVENTORS, check box 🔯 and attach sheet with same information and signature and date for each.

703+816+4100MON) 6. 19'00 10: ST. 10:33/N0. 4860565016 P 3 (Domestic Non-Assigned/Foreign) FROM NIXON VANDERHYE PC Serial No. 2000-06-26 Date: 3. Inventor's Signature: Sweden (citizenship) FRENGER Pál inventor: (last) мi (first) (state/country) Sweden Solna Residence: (city) Himlabacken 10, Solna, Sweden Post Office Address:

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(Zip Code)